

Joint Transportable Collective Protection System (JTCOPS)

What It Is:

When nuclear, biological or chemical agents contaminate the environment, soldiers and other personnel need a safe place to work, eat and sleep. They can access a toxic-free shelter in JTCOPS, the Joint Transportable Collective Protection System.

Why It's Needed:

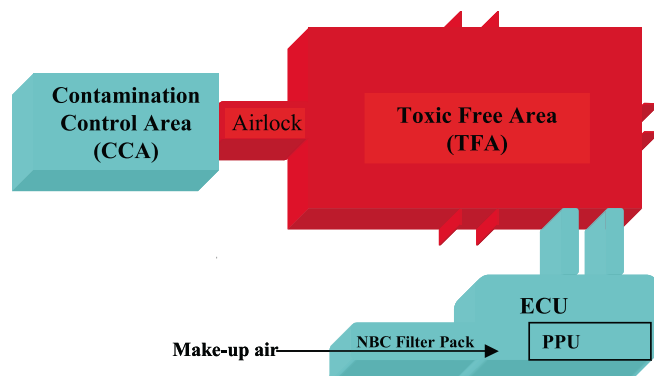
Army personnel must sometimes work in a contaminated environment for long stretches of time — and weighed down by full Individual Protective Equipment (IPE). JTCOPS is needed to provide relief from the psychological and physiological stress of wearing IPE.

How It Works:

To reach the toxic free area, personnel first pass through a contamination control area. Here they can take off their protective clothing and remove any liquid contaminants. The shelter is kept free of contamination using an environmental control unit (ECU), a filter/blower, and an overpressurized interior that keeps contaminated air from seeping in.

Some special features of the system:

- **Transportable...**JTCOPS is a modular shelter that can be expanded to meet the changing needs of each mission.
- **Long-lasting...**JTCOPS provides protection-without a filter change-against all chemical and biological agents, toxic industrial materials and nuclear or radiological particulate matter for 30 days after the first exposure to the agents.
- **Adaptable...**The system can be used within existing structures or can stand alone as a billeting, medical and operational facility. JTCOPS can connect collectively protected vehicles and vans to make entries and exits safe.



**Notional JTCOPS Module
(500 lbs. per module (packaged))**

We expect JTCOPS to be fully operational by FY2006.

Benefits:

Progressive Protection... Compared to existing systems, JTCOPS will be lighter and less expensive and will sustain operations for longer times.

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